

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P867381

Luminaire Tested: PRLX-2004-L-940-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-940-133L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

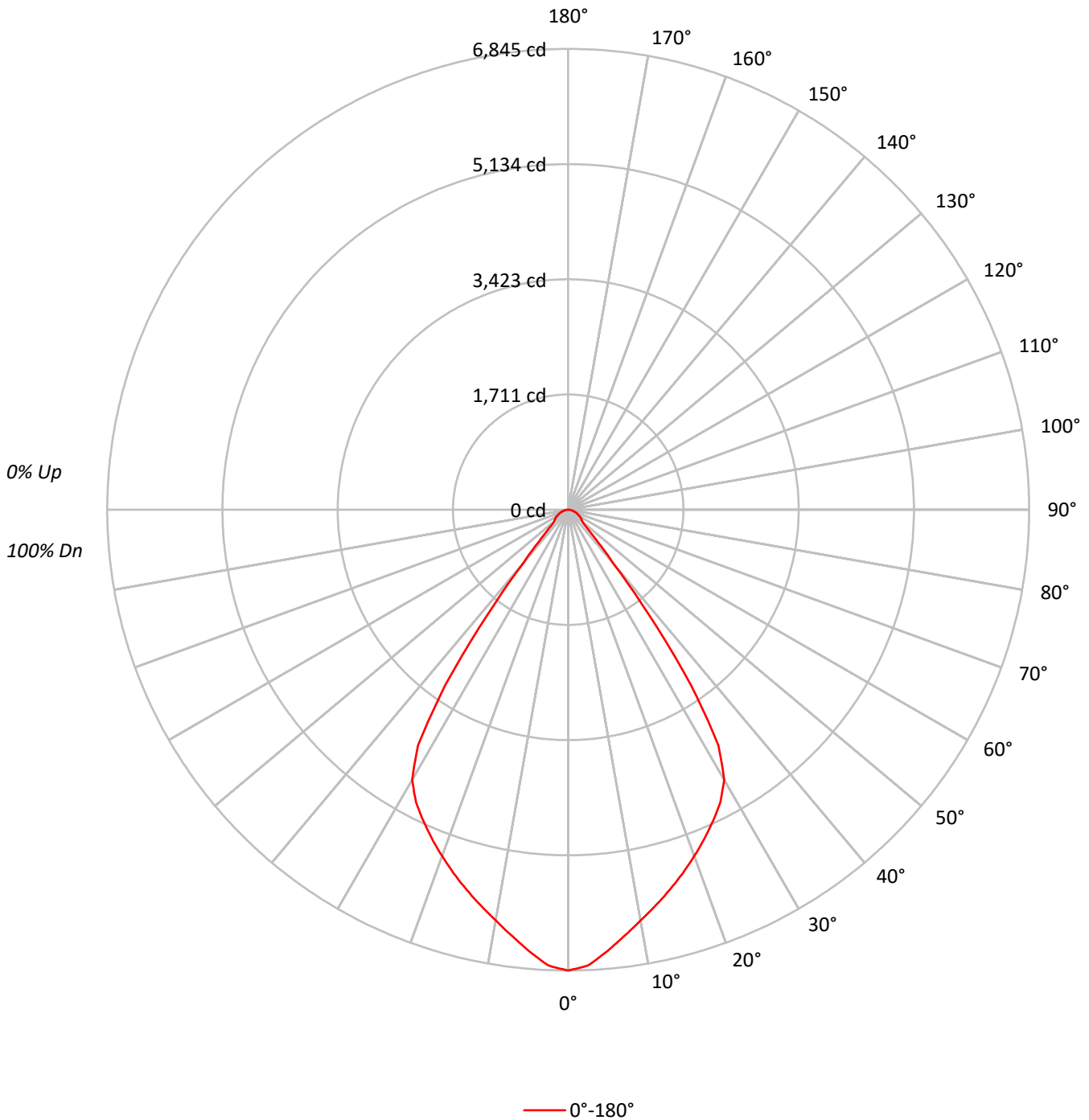
Lumens per Lamp: N/A
Luminaire Lumens: 7330.9 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867381

CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P867381

CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-BRSS-X

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99		100	98	97		96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84	81	79	77
4	95	87	80	76	93	85	80	75	83	78	74		81	77	74		79	76	73	71
5	90	80	74	69	88	79	73	69	78	72	68		76	71	68		74	70	67	66
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	58		67	62	58		66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47		56	51	47		55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33773
5°	32627
10°	31035
15°	29831
20°	28744
25°	27730
30°	26391
35°	19143
40°	6802
45°	2995
50°	2072
55°	2044
60°	1927
65°	1815
70°	1705
75°	1613
80°	1520
85°	1410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2995 cd/sqm

TEST NUMBER: P867381

CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.4	8.4
10°-20°	1644.7	22.4
20°-30°	2341.4	31.9
30°-40°	1856.5	25.3
40°-50°	389.1	5.3
50°-60°	210.8	2.9
60°-70°	154.5	2.1
70°-80°	89.6	1.2
80°-90°	27.9	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4602.5	62.8
0°-40°	6459.0	88.1
0°-60°	7058.9	96.3
0°-90°	7330.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7330.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6845	
5°	6588	616
15°	5840	1645
25°	5094	2341
35°	3178	1857
45°	429	389
55°	238	211
65°	156	154
75°	85	90
85°	25	28
90°	0	

TEST NUMBER: P867381

CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	6845.3
2.5°	6776.9
5°	6587.8
7.5°	6385.0
10°	6194.7
12.5°	6018.1
15°	5840.2
17.5°	5661.1
20°	5474.5
22.5°	5287.9
25°	5093.9
27.5°	4894.8
30°	4632.4
32.5°	4149.7
35°	3178.2
37.5°	1953.0
40°	1056.1
42.5°	645.6
45°	429.2
47.5°	312.2
50°	269.9
52.5°	256.2
55°	237.6
57.5°	216.4
60°	195.3
62.5°	175.4
65°	155.5
67.5°	136.8
70°	118.2
72.5°	100.8
75°	84.6
77.5°	68.4
80°	53.5
82.5°	38.6
85°	24.9
87.5°	12.4
90°	0.0



TEST NUMBER: P867381
 CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-BRSS-X

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.30	10.36	9.67	10.67	10.99	9.30	10.36	9.67	10.67	10.99
	3H	10.93	11.87	11.32	12.20	12.57	10.93	11.87	11.32	12.20	12.57
	4H	11.56	12.43	11.97	12.78	13.17	11.56	12.43	11.97	12.78	13.17
	6H	12.04	12.83	12.46	13.21	13.60	12.04	12.83	12.46	13.21	13.60
	8H	12.20	12.95	12.63	13.34	13.75	12.20	12.95	12.63	13.34	13.75
	12H	12.31	13.02	12.74	13.40	13.84	12.31	13.02	12.74	13.40	13.84
4H	2H	9.79	10.66	10.20	11.01	11.40	9.79	10.66	10.20	11.01	11.40
	3H	11.63	12.34	12.05	12.75	13.16	11.63	12.34	12.05	12.75	13.16
	4H	12.39	13.02	12.82	13.44	13.89	12.39	13.02	12.82	13.44	13.89
	6H	13.00	13.54	13.47	13.99	14.46	13.00	13.54	13.47	13.99	14.46
	8H	13.20	13.71	13.68	14.16	14.64	13.20	13.71	13.68	14.16	14.64
	12H	13.36	13.80	13.85	14.28	14.76	13.36	13.80	13.85	14.28	14.76
8H	4H	12.62	13.13	13.09	13.58	14.05	12.62	13.13	13.09	13.58	14.05
	6H	13.37	13.78	13.88	14.28	14.76	13.37	13.78	13.88	14.28	14.76
	8H	13.67	14.03	14.20	14.55	15.04	13.67	14.03	14.20	14.55	15.04
	12H	13.91	14.22	14.43	14.72	15.30	13.91	14.22	14.43	14.72	15.30
12H	4H	12.62	13.06	13.11	13.55	14.03	12.62	13.06	13.11	13.55	14.03
	6H	13.41	13.77	13.94	14.29	14.79	13.41	13.77	13.94	14.29	14.79
	8H	13.77	14.08	14.29	14.58	15.16	13.77	14.08	14.29	14.58	15.16